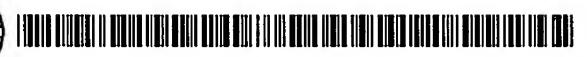
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 2 March 2006 (02.03.2006)

(10) International Publication Number WO 2006/022493 Al

(51) International Patent Classification⁷:

H04N 5/21

(21) International Application Number:

PCT/KR2005/002742

- (22) International Filing Date: 19 August 2005 (19.08.2005)
- (25) Filing Language:

Korean

(26) Publication Language:

English

- (30) Priority Data:
 - 10-2004-0067615 26 August 2004 (26.08.2004) KR
- (71) Applicant (for all designated States except US): NEXTCHIP CO., LTD. [KR/KR]; 2nd FL, Sooam Bldg., 66-1 Yangjae-dong Seocho-gu, Seoul 137-130 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LEE, Seong Won [KR/KR]; No.609-2105 Jeongdeun-Maeul, Woosung 6th Apt., Jeongja-dong Bundang-gu, Seongnam-si, Kyunggi-do 463-010 (KR). VIVEK, Maik [IN/KR]; 207-26 Heukseok-1-dong, Dongjak-gu, Seoul 156-861 (KR). PAIK, Joon Ki [KR/KR]; No. 1-108 Hanshin Seorae Apt., 70-1 Banpo-4-dong, Seocho-gu, Seoul 137-044 (KR). JANG, Ji Hoon [KR/KR]; No.201-402 Keukdong Apt., Block 36, Jookjeon-dong Yongin-si, Kyunggi-do 449-160 (KR).

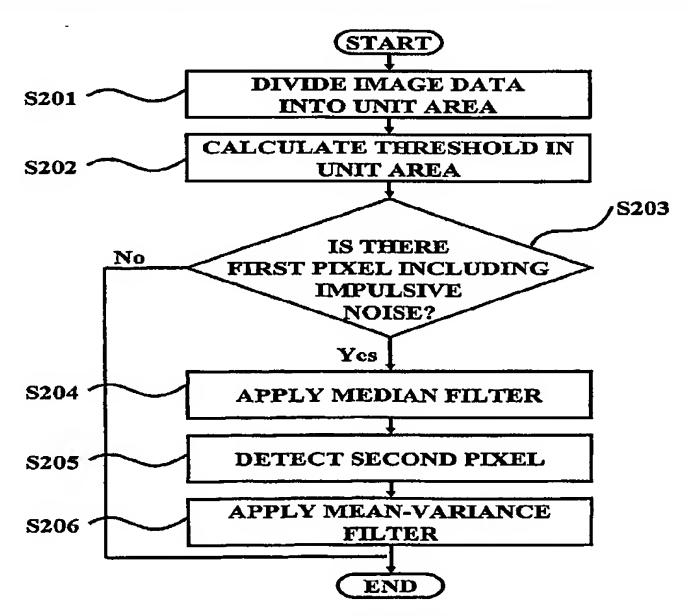
- (74) Agent: SONG, Young Gun; MUHANN Patent & Law Firm, 5th FL, Youngpoong Building, 142 Nonhyun-dong, Kangnam-gu, Seoul 135-749 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FT, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: METHOD FOR REMOVING NOISE IN IMAGE AND SYSTEM THEREOF



(57) Abstract: Disclosed are a method for removing noise in an image, including the steps of: dividing image data contained in the image into predetermined unit areas; calculating each threshold corresponding to the unit area by using values of pixels contained in the unit area; detecting whether a first pixel containing impulsive noise exists in the unit area by using the calculated threshold; applying a median filter to the first pixel in the case the first pixel is detected; identifying a second pixel adjacent to the first pixel in the case the median filter is applied to the first pixel; and applying a mean-variance filter to the second pixel, and a system thereof.



006/022493

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.